MODEL 6730
BABY SCALE
OPERATION MANUAL

8535-M023-O1 Rev H
03/06

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INTRODUCTION

The Model 6730 Baby Scale is a 30 pound capacity, battery-operated baby scale housed in a stainless steel enclosure. The scale is equipped with a removable baby tray and a color coded membrane keyboard. The Model 6730 has a number of special features that make it both easy to use and maintain.

This manual contains information on the operation and maintenance of this scale. Please take time to read the section describing the operation of the scale before attempting to use your new Model 6730.

FCC COMPLIANCE STATEMENT

WARNING! This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user, at his own expense, will be required to take whatever measures necessary to correct the interference.

All rights reserved. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. While every precaution has been taken in the preparation of this book, we assume no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend to a great extent upon the individual accuracy, skill and caution. For this reason, we are not able to guarantee the result of any procedure contained herein. Nor can we assume responsibility for damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

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PRECAUTIONS

Before using this instrument, read this manual and pay special attention to all "WARNING" symbols:

IMPORTANT

ELECTRICAL WARNING

SERIAL NUMBER _____

DATE OF PURCHASE _____

PURCHASED FROM _____

_____

_____

RETAIN THIS INFORMATION FOR FUTURE USE

QUICK START

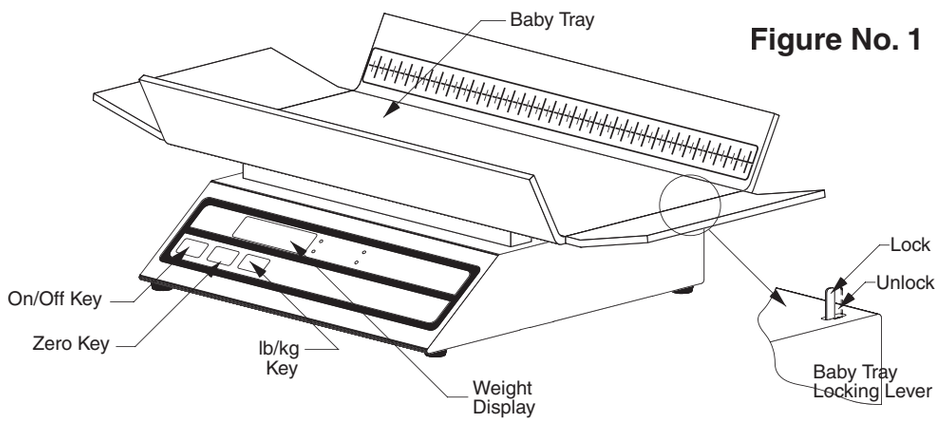
Although it is recommended that you read this manual before attempting to operate the scale, this section is included to provide a condensed set of instructions on installing and using the scale. At a minimum, please make certain you read all of the caution and warning statements.

Step 1 Install the baby tray by pushing the locking lever rearward and sliding the baby tray to the right. Release the lever and make certain the tray is locked in place (See Figure No. 2).
Step 2 Install batteries by removing the battery access cover on the bottom of the scale. This scale uses eight (8) "D" size alkaline batteries (See Figure No. 3).
Step 3 Press the **ON/OFF** key to turn the display on. Place the blanket or pad on the baby tray and press the **ZERO** key to reset the weight display to zero.
Step 4 Place the baby on the scale. Wait until the Weight Lock light turns on, then read the baby's weight in the display. Press the lb/kg key to toggle between Pound/Ounce and Kilogram/Gram weighing units.
Step 5 Remove the child from baby tray. Scale will turn off automatically after one minute, or press the **ON/OFF** key to turn it off.

INSTALLATION

Begin the installation by removing your new Model 6730 Baby Scale from the shipping carton. Examine the scale and baby tray for any damage that may have taken place during shipment. If you find evidence of shipping damage, the shipping company should be contacted at once. Inside the shipping carton you should find the Model 6730 Baby Scale, Baby Tray and Operating Instructions. Refer to Figure No. 1 for an illustration of the various scale components.

Figure No. 1



Before using the scale, it will be necessary to install the baby tray and batteries. Note that the baby tray is designed to lock into place on the scale weighbridge preventing accidental separation from the scale. Follow the steps listed below to install the baby tray.

Step 1 Place the scale on a table top. Remove the four (4) tray mounting lugs and lock washers from the plastic bag and install them on the bottom of the tray (see Figure No. 2).
Step 2 Position the mounting lugs on the baby tray in the large end of the keyhole located below the large oval openings on the top of the scale. See Figure No. 2 for additional detail.
Step 3 Push the baby scale locking lever to the rear and hold it while sliding the baby tray to the right. Release the locking lever and verify that the baby tray is locked in place by making certain that it cannot be slid to the left.

CAUTION! Make absolutely certain that the baby tray is locked in place before using the scale. Be sure that the locking lever is in the locked position and that the baby tray lugs are at the right end of their openings (Refer to Figure No. 2). Failure to lock the baby tray in place can result in injury to the child should the tray separate from the scale.

CAUTION! DO NOT pick up, carry or move this scale by the baby tray. Always support the base.

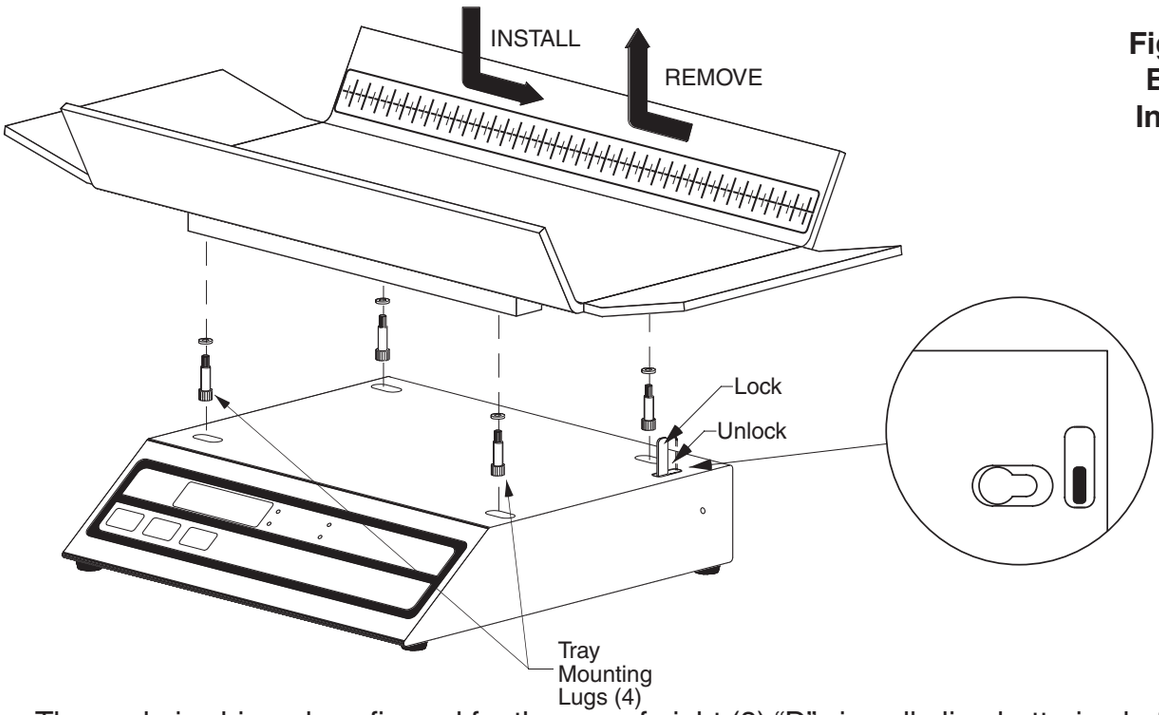


Figure No. 2
Baby Tray
Installation

The scale is shipped configured for the use of eight (8) “D” size alkaline batteries but, if the setup is changed, it can use eight (8) “D” sized Ni-Cad batteries. Refer to Appendix A for information on setting up the scale to use Ni-Cad batteries. Use the following procedure to install the batteries.

Step 1 With the baby tray installed, turn the scale upside down on a stable surface. Loosen the battery cover thumb screw (See Figure No. 3 for the location of this cover). Rotate the cover upward away from the scale, removing it from the scale housing.

Step 2 With the battery cover removed, access to the internal battery tray is gained. Install the eight (8) “D” size alkaline batteries as shown in Figure No. 3.

CAUTION! Make certain that the batteries are correctly positioned when they are placed in the battery holder. Failure to install the batteries in the correct position can keep the scale from operating.

CAUTION! Do not mix alkaline and Ni-Cad batteries. All eight (8) of the batteries must be of the same type and the scale configured for the battery type used (alkaline or Ni-Cad).

WARNING! Do not attempt to recharge alkaline batteries. Attempts to recharge alkaline batteries can result in battery leakage and damage to the equipment and/or injury to the operator.

Step 3 Replace the battery cover and tighten the thumb screw.

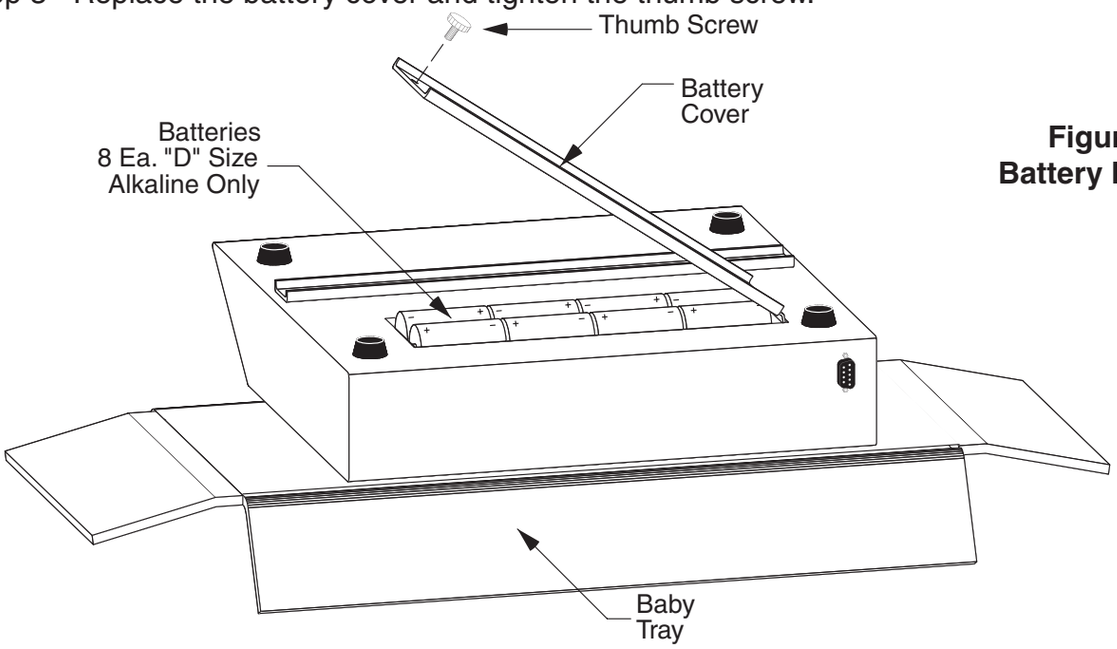


Figure No. 3
Battery Installation

After the batteries have been installed, the scale may be prepared for use. Place the scale on a smooth, stable surface. If the scale is unstable, adjust the front legs up or down as necessary until the scale is stable. The scale should not be placed in direct sunlight nor should it be located such that it is exposed to air ducts.

CAUTION! Make certain that the structure beneath the scale is of sufficient strength to hold both the scale AND the maximum load to be placed on the scale. Failure of the supporting structure can result in an injury to the child in the baby tray, as well as damage to the scale.

Installation of the scale is now complete. It is a good idea to keep the scale shipping carton and packing material for later use should storage or transport of the scale become necessary. Please read the operating instructions contained in this manual before attempting to operate your scale.

OPERATION

The following steps describe the operation of the Model 6730 Baby Scale. Note that a set of condensed instructions appear on the face of the scale as well.

Basic Weighing Operation

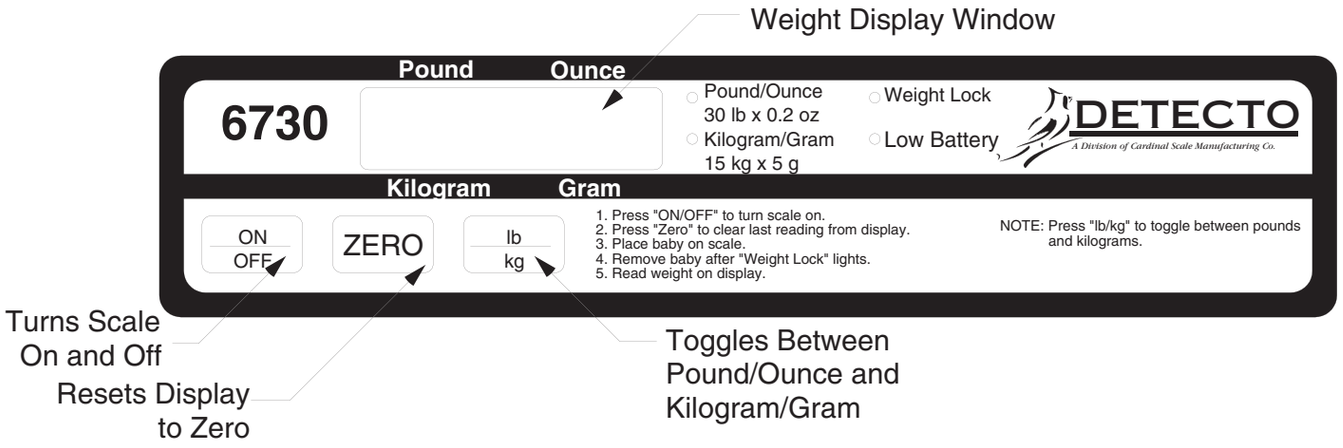
Step 1 Press the **ON/OFF** key. The scale will sound a short beep and the display will turn on showing the last weight reading. Press the **lb/kg** key to select the desired weighing unit. Note that pressing the l**b/kg** key causes the scale to alternate between pound/ounce and kilogram/gram. A red light will turn on to indicate which weighing units have been selected.

Step 2 If desired, a blanket or similar covering may be placed in the baby tray at this time. Make certain that the blanket does not extend over the tray and touch surrounding objects (including the scale enclosure) or the weight reading could be incorrect. Press the **ZERO** key and make certain that the display shows a zero weight reading.

Step 3 Place the child in the baby tray and observe the scale display. In a few seconds the Weight Lock indicator will light, signaling that the weight display is locked and the child may be removed from the scale. Remove the child from the scale.

Step 4 Record the child's weight from the weight display. Note that after a short period of non-use the scale will turn off. To recall the last weight, press the **ON/OFF** key.

Refer to Figure No. 4 for a view of the front panel layout of the scale.



Operating Hints

1. Remember that all items (blankets, pads, toys, etc.) that are not to be included in the weight should be placed on the baby tray and the **ZERO** key pressed. This will insure that the item(s) will not be included in the child's weight.
2. If the child is very active it may take a few seconds longer for the Weight Lock light to turn on. During this time the scale's microcomputer is busy calculating the stable weight.
3. If the scale is not in use, press the **OFF** key to conserve battery life. Note that after about one minute of non-use the scale will turn off automatically.

PRINTER OUTPUT

The Model 6730 Baby Scale includes a serial output connector for use with a printer. The output connector is located on the rear panel (see Figure No. 5). When the weight display is locked on the baby's weight and the Weight Lock light is turned on, weight data is transmitted automatically to an optional printer. The weight is transmitted at 1200 baud in one of the following formats:

Pound/Ounce Units Selected:

PPblbOO.Obozb<CR>

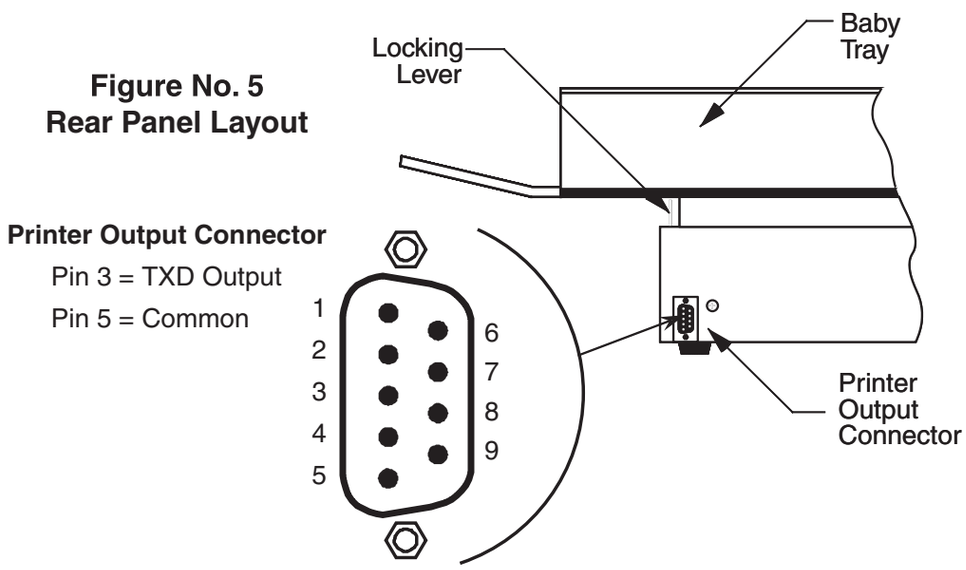
where PP = ASCII weight in pounds
b = ASCII space
lb = ASCII characters "lb" for pounds
OO.O = ASCII weight in ounces with decimal point
oz = ASCII characters "oz" for ounces
<CR> = Carriage Return

Kilogram/Gram Units Selected:

KKbkgbGGGbgb<CR>

where KK = ASCII weight in kilograms
b = ASCII space
kg = ASCII characters "kg" for kilograms
GGG = ASCII weight in grams
g = ASCII character "g" for grams
<CR> = Carriage Return

Figure No. 5
Rear Panel Layout



BATTERY REPLACEMENT

The Model 6730 Baby Scale is equipped with a Low Battery indicator light on the front panel. This indicator is used to signal the operator when the batteries become discharged and require replacement. Normal battery life is approximately 250 hours of continuous use with alkaline batteries. When the Low Battery indicator turns on, the batteries should be replaced as soon as possible. The following describes battery replacement.

Step 1 Turn the scale upside down on a stable surface. Remove the battery cover thumb screw. See Figure No. 3 for the location of the battery cover.

Step 2 Rotate the battery cover upward away from the scale base and pull it out from the base. Remove all eight (8) batteries from the battery tray.

Step 3 Insert eight (8) new alkaline “D” cells (or 8 “D” size Ni-Cad cells if so configured) in the battery tray, paying careful attention to the battery polarity. Make certain that all of the batteries have been correctly inserted in the tray before continuing.

Step 4 Replace the battery cover and install and tighten the thumb screw. Turn the scale right side up and press the ON/OFF key. If the display turns on and the Low Battery indicator is off, the battery replacement is complete. If the Low Battery indicator is on, it is likely that at least one of the batteries has been installed backward or is bad. Repeat Steps 1 through 3, paying careful attention to the battery polarity.

CAUTION! Do not mix Ni-Cad batteries with alkaline batteries. The two batteries have different operating voltages. Always use the battery type that matches the setting of the scale (Ni-Cad or alkaline). See Appendix A.

CAUTION! Do not attempt to recharge alkaline batteries. Attempt to recharge alkaline batteries may cause leakage of corrosive material from the batteries that can cause injury and can damage the scale.

MAINTENANCE

The Model 6730 Baby Scale contains no user-serviceable parts and scale maintenance should be limited to an occasional cleaning and battery replacement as required. When cleaning the scale, use only a damp cloth and, if necessary, a mild detergent. The baby tray may be removed from the scale and cleaned separately if desired.

CAUTION! Do not immerse the scale in water to clean. This scale is not waterproof and covering it with water can damage the scale.

CALIBRATION PROCEDURE

CAUTION! Contact Tech Support before attempting re-calibration.

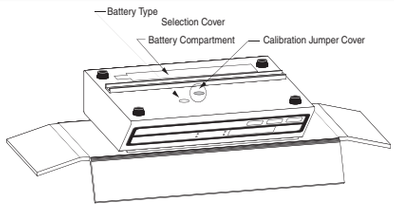


Figure No. 7

To calibrate in pounds:

1. With the scale off, turn the scale upside down on a stable, level surface.
2. Remove the calibration jumper cover. See Figure No. 7.
3. Remove the calibration jumper. See Figure No. 8
4. Return the scale to the upright position.
5. Press the **ON/OFF** key to turn the scale on.
6. The scale display will show Lo 30 and the Pound/Ounce red light will turn on.
7. Place 30 lb of test weight on the platform and allow five seconds for the scale to stabilize.
8. Press the **ZERO** key. The display will show dashes -- ---, clear, then show UNLOD.
9. Remove the weight from the scale and again wait five seconds for the scale to stabilize.
10. Press the **ZERO** key. Again the display will show dashes -- ---, clear, then AL DON.
11. Press the **ON/OFF** key to turn the scale off.
12. Turn the scale upside down and replace the calibration jumper and calibration jumper cover. Refer to Figure No. 7 and Figure No. 8.
13. Return the scale to the upright position and press the **ON/OFF** key to turn the scale on.

Calibration is complete and the scale is now ready to use.

To calibrate in Kilograms:

1. Follow steps 1 through 6 above.
2. Press the **LB/KG** key. The scale displays Lo 15 and the Kilogram/Gram red light will turn on.
3. Place 15 kg of test weight on the platform and allow five seconds for the scale to stabilize.
4. Follow steps 8 through 13 above.

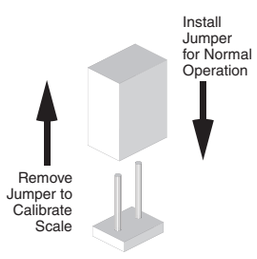


Figure No. 8

Calibration is complete and the scale is now ready to use.

APPENDIX A
BATTERY TYPE SELECTION

The Model 6730 Baby Scale is capable of operating from either alkaline or Ni-Cad batteries. These two types of batteries have different voltage outputs, making it necessary to select the type of battery to be used.

CAUTION! Do not intermix alkaline batteries with Ni-Cad batteries. Only one type of battery should be used. Mixing of battery types will cause the scale to operate improperly and may cause damage to the display.

The scale is shipped from the factory configured for use with alkaline batteries. To change it for use with Ni-Cad batteries, perform the following steps.

Step 1 Turn the scale upside down on a stable surface.
Step 2 Locate and remove the battery jumper access plug. Refer to Figure No. 6 for the location of this plug.

NOTE! There are two access plugs on the bottom of the Model 6730. One is the battery jumper access and the other is the calibration jumper access. Please make sure you remove the correct access plug.

On removal of the plug you will find a small plug-in jumper. Remove the jumper for operation with Ni-Cad batteries or install the jumper for use with alkaline batteries.

NOTE! The battery select jumper can be stored when Ni-Cad batteries are selected by installing the jumper on one pin only of the two-pin connector.

Step 3 Replace the battery jumper access plug by snapping it into place. Verify that the correct type of batteries have been installed. If not, replace the batteries with the proper type following the instructions contained in this manual.

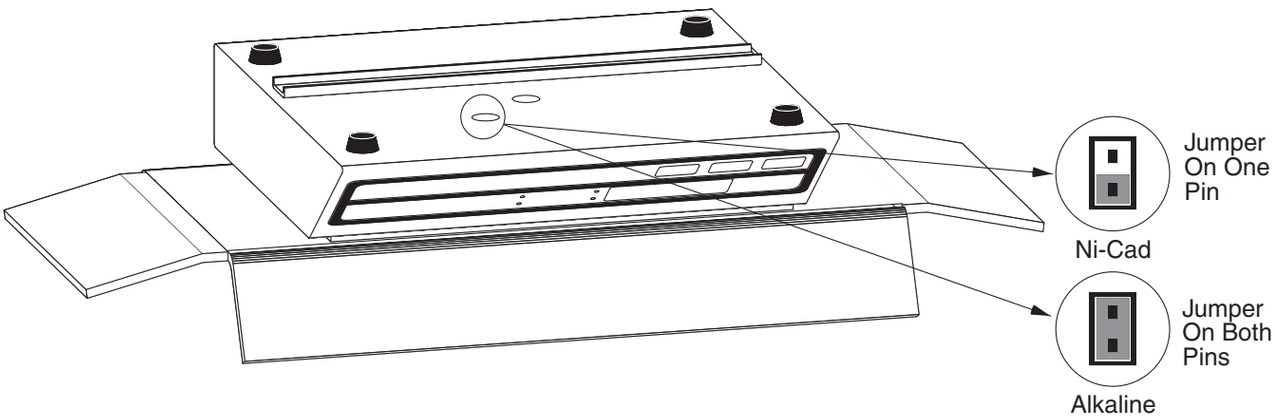


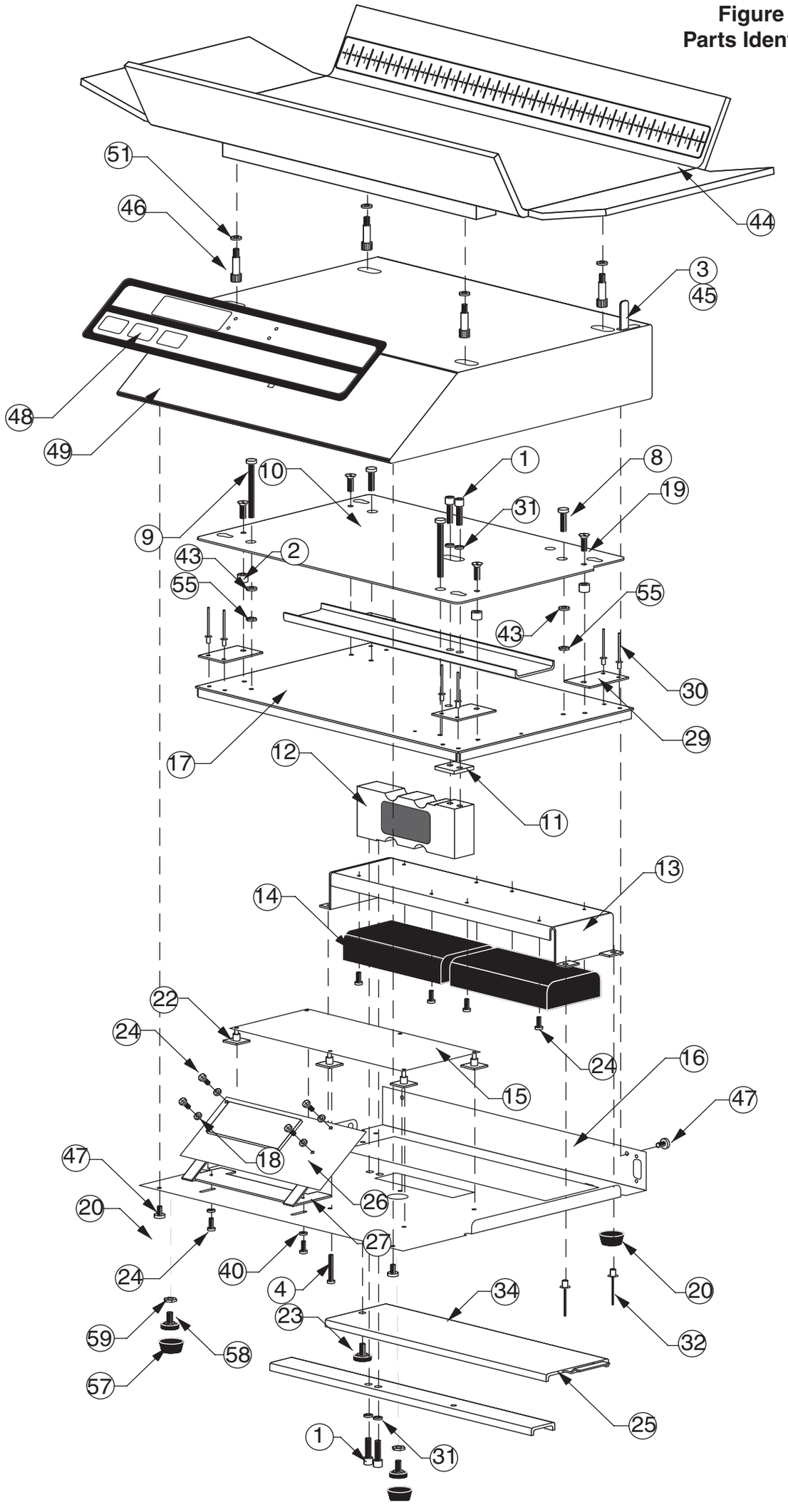
Figure No.7
Battery Jumper
Access Plug Location

APPENDIX B
PARTS LIST

Item	Qty	Part No.	Description
1	4	6021-1496	Socket Head Cap Screw, 1/4”-28 x .75”
2	4	6680-1039	Weighbridge Spacer
3	1	8535-C016-08	Latch
4	1	6021-0624	Pan Head Machine Screw, #6-32 x .75”
5*	1	6022-0025	Extension Spring
6*	1	6024-0011	#6 Star Washer
7*	1	6013-0039	Hex Nut #6-32
8	2	6021-0987	Pan Head Machine Screw, #10-32 x .75”
9	2	6021-1840	Pan Head Machine Screw, #10-32 x 2.125”
10	1	8535-D011-08	Upper Weighbridge
11	1	8540-B132-08	Load Cell Spacer
12	1	2950-C014-4A	Load Cell (SP-50L)
13	1	8535-D014-08	Battery Bracket
14	1	8535-C031-0A	Battery Tray Assy
15	1	8535-D002-0A	Main Board
16	1	8535-D008-0A	Base Plate Weldment
17	1	8535-D012-0A	Lower Weighbridge Weldment
18	19	6680-0003	Nylon Washer, #6
19	4	6021-1017	Flat Head Machine Screw, #10-32 x .5”
20	2	6540-0032	Rubber Foot
21*	1	6650-1074	E-Ring
22	5	6680-1094	Nylon Spacer, Self-Adhesive
23	1	8535-B025-08	Thumb Screw, Battery Cover
24	15	6021-0665	Pan Head Machine Screw, #6-32 x .375”
25	1	8535-D015-08	Battery Cover
26	1	8535-C003-0A	Display Board
27	1	8535-C020-08	Display Bracket
28*	1	6013-0388	#6-32 Hex Nut
29	4	8535-B019-08	Load Plate
30	8	6680-0173	1/8” Dia Pop Rivet
31	4	6024-0040	1/4” Lockwasher Helical Split, SS
32	4	6680-0074	3/16” Dia Pop Rivet
33*	2	6610-5007	Cable Clip
34	3	6030-0050	Gasket Material, 3 PC, 9 1/2” Long
35*	1	8535-B005-0A	Display Cable Assy
36*	1	8535-B007-0A	Serial Cable Assy
37*	2	6610-2000	Jack Socket
38*	2	6013-0245	#4 Hex Nut
39*	2	6680-0052	#4 Helical Split Lock Washer, Zinc
40	2	6024-1022	#6 Flat Washers
43	4	6024-0049	#10 Star Washer
44	1	8535-C022-0A	Baby Tray
45	1	20B122	Plastic Cap
46	4	8535-B026-08	Shoulder Screw
47	4	6021-1254	Truss Head Machine Screw, #8-32 x .312”
48	1	8535-D038-08	Keypad
49	1	8535-D010-08	Case
51	4	6024-0037	Lock Washer, #10 Helical
52*	2	6610-1165	Finishing Plug
53*	1	8535-B029-08	Labels - Baby Scale
54*	1	8535-B030-08	Warning Label
55	4	6013-0295	#10-32 Hex Nut
57	2	6540-1012	Snap On Cap
58	2	6540-1011	Adjustable Foot
59	2	6540-0049	1/4”-20 Jam Nut

*Not Shown in Figure No. 9

Figure No. 9
Parts Identification



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